AMENDMENTS TO THE SPECIFICATION

Please amend the paragraphs beginning at line 12 on page 18 as follows:

Figure 6 shows an exemplary screen display from the design system for managing step 460. The collection of selected user modules selected is displayed in window 501. A second window 502 displays the available virtual blocks and other configurable elements. In one embodiment, there are analog blocks 530 and digital blocks 525, input bus 520, and output bus 521. The user places the user module (or, equivalently, assigns blocks to a particular user module) by choosing a specific user module 500 from the collection of selected user modules, and then pushing an advance placement button 503 to move through different candidate placements. Once a desired placement is found, the user then pushes a commit button 504. In this example, the user module only requires one digital block, which has been assigned to a specific virtual block <u>505</u> [[525]]. In some cases, a user module will require multiple blocks. A user module may use more than one block and may use both digital and analog blocks. Parameter window 510 displays additional user-specifiable information about the selected user module 500. It is appreciated that this information is used for parameterization of the user module. After assigning virtual blocks to all selected user modules, the user then presses a generate code button 507 to generate files in step 470.

Figure 7 shows a screen display for a situation in which a user module uses more than one block (e.g., <u>analog</u> ~~digital~~ blocks 531 and 532) and is shown for a selected digital-to-analog converter 506. Parameter window 533 displays additional user-specifiable information about the selected user module 506. It is appreciated that this information is used for parameterization of the user module.